## DERWENT PUBLICATIONS LT

83-790688/42 B04 D16 J04 K08

INST PASTEUR (CNRS)

FR 2523-311-A

12.03.82-FR =004247 (16.09.83) GOIn 33/66 C07g 07/00 Aq. - soluble albumin-ligand coupling product - for use in immunosasays

Issued in Week 8343. G83-102376

Full Patentoes: Inst. Pasteur; Cent. Nat. Rech. Scientifique.

 (A) an albumin/specific ligand coupling prod. which is soluble in aq. media is new.

(B) immunonessay of a biological substance (I) comprises immobilising a substance (II) having binding affinity for (1), (b) incubating with a medium contg. (l), (c) washing the resulting reaction mixt, and incubating with an albumin/ specific ligand coupling prod. in soln, in an aq. medium, where the ligand is capable of reacting specifically with (l) or (II). (d) washing the resulting reaction mixt, and incubating with a labelled anti-albumin antibody, and (e) detecting the label.

(C) As immunoassay test kit comprises an albumin/
specific ligand coupling prod., a labelled aati-albumin antiloody and reagents for detecting the label.

<u>AD VANT</u>AGES

INSP 12.03.82 B(4-B2C, 4-1: 0, 4-B4A, 4-B4C, 4-B4D, 4-B4F, 5-A4, FR 2523-311-A II-G7A, 11-G7B, 12-K4) D(5-A1, 5-H) J(4-B1) C07g 07/00

Coupling with albumin increases sansitivity, esp. in the case of enzyme immunoassays for antigens, haptens or

The specific ligand may be an antigen, hapten, antibody, hormone, hormone receptor, ensyme inhibitor or lectio.
It may be coupled with human or animal albumin (esp. BSA) using glutaraldehyde or by 2-stage benzoquinone activation

The label may be an enzyme, a radioactive material, a fluorochreme, a particulate material or erythrocytes.

A BSA/anti-lgE reagent was prepd, by isolating sheep anti-rabbit Ig antibodies by affinity chromatography, dialys ing the antibodies and BSA against phosphate buffer (0.1 M, pH 6.6) at 4 °C overnight, and mixing 3 mg of the dialysed antibody with 6 mg of the dialysed BSA in 0.1M phosphate buffer. The mixt. (1 ml) was treated with 0.2 ml of 1% aq. glutaraldchyde and incubated at room temp. for 3 hr.

The prod, was used in a sandwich-type enzyme immuno assay for human IgE.(18pp367EDDwgNo0/0).

83-795400/43 HEYMAN A M

HEYAV 01.03.82 B(11-C48) AU 8371-382-A

18.05.82-US-379480 (+US-353432) (08.09.83) A61m-29 Urological instrument esp. retentive balloon catheter - inserted by aliding over filiform

C83-102379 A urological instrument (esp. a catheter) is inserted into the bladder by first advancing a fillform through the urethra, the fillform having smoothly contoured leading end with a lateral opening. Urine flows through this opening and into the filiform to indicate when the leading end of the filiform has entered the bladder

The urological instrument has an internal dia. greater than the external dia, of the filiform to permit the instrument to be slid along the fillform. The instrument may have an inflatable balloon collar which retains the instrument in the bladder; the filliform can then be withdrawn.

<u>ADVANTAGE</u>

The correct positioning of the filiform is indicated by the drainage of prine.

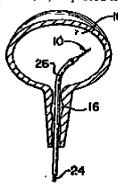
EMBODIMENT

Bladder (18) has the drainage catheter (26) in position.

 $0 \cap Z$ 

Pref. the leading section of the filiform (10) is curved as shown.

The filliform may be inserted while a stylet wire extends axially within the fillform to stiffen it. Similarly, a stylet tube (24) is placed inside the drainage catheter while it is being slid along the pre-positioned fillform.(25pp295GHDwgNo5/6)



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B03 (B02) SUMITOMO CHEMICAL KK 03.03.82-JP-034168 (08.09.83) A61k-31/41 C07d-271/06 C07d-413/04 C07d-417/10 C07d-471/04 C07d-491/05 5-Aratkyl-1,2,4-oxadiazole derivs. - are ontlinflammatories, analgesics and antipyretics

C83-102382 5-Aralkyi-1,2,4-oxadiazole deriva, of the formula (I) and their salts are new

$$R-T = \left\langle \begin{array}{c} O - N \\ N \end{array} \right\rangle - U \qquad (I)$$

(R is a gp. of formula (II), (III), (IV) or (V):

$$R_1X_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_6$ 
 $R_5$ 
 $R_6$ 
 $R_6$ 

SUMO 03.03.82 B(6-H. 7-E4, 12-D), 12-D7, 12-D8) 3

 $R_{10}$ 

 $R_1$  is alkyl, alkenyl, cycloalkyl, cycloalkenyl, opt. substd. phenyl or heterocyclyl;

R<sub>2</sub> and R<sub>3</sub> are each H, halo, amino, OH, alkoxy or alkyl; K<sub>1</sub> is -CH<sub>2</sub>-, -CH<sub>2</sub>O-, -CO-, -O-, -S-, -NH or a single

R4 and R5 are H slkyl or opt. subsid. phenyl; R, is opt. substir phenyl or opt, substit. benzoyl; A is N. O or S:

B and D are each C or N;

R7 is alkyl, lower alkoxy or opt, substd. phenyl; E ie Nor C;

F is O, S or C or C=C or C=N, broken lines indicate opt. bunds; Rg is H or lower alkyl;

A U8311483-A+

Ro is H, halo or alkowy;

Rio is H, cycloheryl or substd, bankoyl; G is methylene, substd, benkoylimine, clanamoylimine or substd. styrylidene, provided that G is -CH2- when R10 is cyclohexyl or substd. benzoyl;

 $R_{11}$  is  $H_s$  halogon, alkyl or alkoxy;  $X_2$  and  $X_3$  are different and are -CH<sub>z</sub>-, -CO-, -O-, -S-, -N/r- -N(CH<sub>3</sub>)- or single bond;

I to a benzene, pyridine, thiophene, furan or pyrrole ring; n is C or 1;

T is alkylene or alkenylene each opt carrying an one, OH or lower alkoxy substit;, or T is a single bond;

U is H, alkyl, alkenyl, polyhaloalkyl, cycloalkyl, cycloalkenyl, opt, substd. phenyl, pyridyl, -T, -R<sub>12</sub> or R<sub>13</sub>-X<sub>4</sub>-T<sub>4</sub>-;
R<sub>12</sub> is halogen, OH, SH, alkylsulphinyl, dialkozymethyl,
alkozycarbonyl, COOH, sulpho, CN, NR'R" or
- \$\Phi\$ SR\_1'R\_1". X \$\Omega\$;

R' and R' are H, alkyl or hydroxy\_alkyl;

or NE'R" forms a 5 or 6 membered opt. unsaid. heterocyclic ring, which may contain an O or another N atom, or forms a quaternary ammonium salt or N-oxide;  $R_1'$  or  $R_1$  are alkyl or alkenyl;

X is negative monovalent ion;

T, is alkylene or alkenylene, opt. bearing an OXO or OH substit.;

Ru is alkyl, alkenyl, hydroxyalkyl, acyloxyalkyl, amino alkyl, acylaminosikyl, cyclosikyl, cyclosikonyl, opt. substd. phenyl, phenyl-alkyl, heterocyclyl, heterocyclylalkyl, acyl, acylthicalkanoyl, mercaptcalkanoyl, alkoxy-carbonyl, alkylsulphonyl, -C CNR<sub>2</sub>'R<sub>2</sub>" or SO<sub>2</sub>NR<sub>2</sub>'R<sub>2</sub>": R<sub>2</sub>' and R<sub>2</sub>" are each H, alkyl or hydroxyalkyl; X<sub>4</sub> is -O-, -S-, -NH-, a single band or a gp. of formula (VIII)

R<sub>14</sub> and R<sub>15</sub> are each H or alkyl. All alkyl, alkenyl, alkylene, alkenylene, cycloalkyl and cycloalkenyl gps. are 'lower' i.e. \$ 6C; and cycloalkyl gps may be oxo- or hydroxy-subsid.).

(I) are antiinflammatories, analgesics and antipyretics without ulcerogenic side effects.

PREPARATION

By several methods including:-

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z)  $R-T-CN + O \leftarrow N \equiv C-U_1 \longrightarrow (I; U = U_1)$ 

(U<sub>1</sub> is alkyl, alkenyl, polyhalo alkyl, cycloalkyl, cycloalkenyl, phonyl, subsid, phenyl, pyridyl or  $R_{16}$ - $T_{2}$ -;  $T_{2}$  is alkylene or alkenylene;

Ris is halogen, alkowy, alkenylowy, dialkowy) methyl carbcxy, cycloalkyl, phenyl, substd. phenyl, pyridyl, NR'R". CONR2'R2" or -SO2NR3'R2").

H<sub>2</sub>NOH R-T-CONHCSU,  $\rightarrow$  (I; U = U<sub>1</sub>)

$$\xrightarrow{\text{oxida.}} \quad \text{Ro-T}_1 \xrightarrow{\text{O}^{-N}} U_1$$

(Ro is same as R provided X1, X2 and X3 are not -S-)

A mixt, of 2-(2-fluoro-4-biphenylyl)propionic acid (2,44 g), dry benzene (50 ml) and thionyl chloride (2,38 g) was refluxed for 2 hr., coacd, under reduced pressure and residue dissolved in dry benzene (5 ml). The soln, was added dropwise with cooling to a soln, of acetamidoxime (0.815 g) in dry pyridine and stirred at room temp, and refluxed for 5 hr. The solvent was evapd, under reduced pressure and the residue partitioned between benzens (100 ml) and 10% Na<sub>2</sub>CO<sub>3</sub> solm. (20 ml). The organic phase was washed, dried and evapd. and the residue chromatographed on silica gel and sluted with benzene to give 5-(3-fluoro-4-phenyl-a-methylbenzyl)-3-methyl-1,2,4-oma-diazolo which was recrystallised from n-hexane to give product (m.p. 55-56°C),(99pp916EDDwgNoO/0),

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ROUS 03.12.82 B(7-61) \*BE -896-439-A

03.12.82-FR-020271 (12.10.83) CO7d Alpha-alkyl 2-ihlenyl acetic acid derivs. prodn. - by reacting 2-thienyl acetic acid with alkyl carbonate alkyloting agent, then decarboxylotion

CB3-102391 ](t) Prodn. of a-alkyl- 2-thienylacetic acid derive. of formula (I) by the following process is new:

(R is 1-4C alkyl;  $R_1,\,R_2$  and  $R_3$  are each H, 1-4C alkyl or halo; A and A' are 1-4C alkyl; and

X is a functional gp).
(2) The 2-(1,1-di(alkoxycarbonyl)-alkyl)-thiophene intermediates of formula (IV) are new cpds.

COOA' inflammatories.

(I) are intermediates for pharmaceuticals, esp. anti-

**ADVANTAGES** 

The process uses fewer stages than known methods.

The first stage is pref. in presence of Na ethoxide (esp. 1-1.5 equiv. per mole (II)) at 90-135°C. Reaction of (IV is cap, also in presence of Na ethoxide, at 50-80°C.

The final stage is by hydrolysis with base, esp. at 50°C to reflux, then acidification with HCl.

The method is esp. used to make (I) where R<sub>1</sub>= R<sub>2</sub> = R<sub>3</sub>
= H and R = methyl, cpd. (I2).

EXAMPLE

BE -896439 \_-A1